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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/808,899	03/15/2001	Maarten Koning	11283/31	4891	
30636	7590 02/08/2005		EXAMINER		
FAY KAPLUN & MARCIN, LLP			ALI, S'	ALI, SYED J	
150 BROADWAY, SUITE 702 NEW YORK, NY 10038			ART UNIT	PAPER NUMBER	
Ź			2127	,	
•			DATE MAILED: 02/08/200:	DATE MAILED: 02/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/808,899	KONING, MAARTEN			
Office Action Summary	Examiner	Art Unit			
	Syed J Ali	2127			
The MAILING DATE of this communication  Period for Reply	on appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no event, however, may a cion.  s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON a statute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  WTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	13 October 2004.				
	This action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-28 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction	thdrawn from consideration.				
Application Papers		·			
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection	711	· · ·			
Replacement drawing sheet(s) including the					
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attache	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-94)		Summary (PTO-413) s)/Mail Date			
2) ☐ Notice of Draftsperson's Patent Drawing Review (P10-94 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	· —	nformal Patent Application (PTO-152)			

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#### **DETAILED ACTION**

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1. This office action is in response to the amendment filed October 13, 2004. Claims 1-28 are presented for examination.

2. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

## Claim Rejections - 35 USC § 102

- 3. Claims 1-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones et al. (USPN 6,282,561) (hereinafter Jones).
- 4. As per claims 1-3, Jones teaches the invention as claimed, including a method comprising:

assigning a resource to a holding task (col. 8 lines 41-58), wherein the resource may be a mutual exclusion semaphore (col. 4 lines 35-47);

receiving a request by a higher priority task to take the resource, the higher priority task having higher priority than the holding task (col. 11 lines 11-29);

determining whether the holding task has used the resource since the resource was assigned to the holding task (col. 9 lines 60-62; col. 11 lines 30-67); and

releasing the resource when the higher priority task requests to take the resource and the holding task has not used the resource since the resource was assigned to the holding task (col. 11 lines 11-29); and

assigning the resource to the higher priority task (col. 11 lines 11-29).

5. As per claims 4-7, Jones teaches the invention as claimed, wherein the step of determining whether the holding task has executed since the semaphore was assigned to the holding task includes testing a variable, the variable indicative of whether the holding task has executed since the semaphore was assigned to the holding task (col. 11 lines 17-22), wherein the variable is associated with either the holding task or the semaphore (col. 2 lines 12-21); and

setting the variable, when the semaphore is assigned to the holding task, to indicate that the holding task has not executed since the semaphore was assigned to the holding task (col. 7 lines 38-50; col. 8 lines 41-58).

6. As per claim 8, Jones teaches the invention as claimed, including assigning a second semaphore to a second holding task, the second semaphore being a mutual exclusion semaphore (col. 1 line 66 - col. 2 line 11);

receiving a request by a second higher priority task to take the semaphore, the second higher priority task having higher priority than the second holding task (col. 11 lines 11-29);

determining whether the second holding task has executed since the second semaphore was assigned to the second holding task (col. 9 lines 60-62; col. 11 lines 30-67); and

maintaining control of the second semaphore by the second holding task when the second higher priority task attempts to take the second semaphore and the second holding task has executed since the second semaphore was assigned to the second holding task (col. 8 lines 41-48).

7. As per claims 9-13, Jones teaches the invention as claimed, wherein the step of determining whether the second holding task has executed since the second semaphore was assigned to the second holding task includes testing a second variable, the second variable indicative of whether the second holding task has executed since receiving the second semaphore (col. 9 lines 60-62; col. 11 lines 30-67); and

setting the second variable to indicate that the second holding task has not executed when the second semaphore is assigned to the second holding task and setting the second variable to indicate that the second holding task has executed when the second holding task executes after receiving the second semaphore (col. 7 lines 38-50; col. 8 lines 41-58),

wherein the second variable is associated with either the second holding task or the second semaphore (col. 2 lines 12-21).

- 8. As per claims 14-15, Jones teaches the invention as claimed, including timing out a last request for the semaphore by the holding task if the last request would have already timed out had the holding task not received the semaphore by the time the semaphore is released (col. 12 lines 1-10) and adding an entry for the holding task to a wait queue (col. 5 lines 11-30).
- 9. As per claims 16-26, Jones teaches the invention as claimed. All claim limitations in claims 16-26 are encompassed in some form by claims 1-15. The discussion presented above for those claim limitations form the basis for the rejection of claims 16-26 as well.

10. As per claims 27-28, Jones teaches the invention as claimed, including a semaphore control block associated with a semaphore, the semaphore control block comprising:

a holding task identification variable, the holding task identification variable configured to indicate a task that presently holds the semaphore with which the semaphore control block is associated (col. 6 lines 4-9; col. 7 lines 38-50; col. 9 lines 46-51);

a stealable variable, the stealable variable configured to indicate whether the semaphore can be stolen from the task that presently holds the semaphore with which the semaphore control block is associated, wherein the stealable variable is a one-bit flag (col. 9 lines 38-41, 60-62).

### Response to Arguments

11. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new grounds of rejection.

## Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed J Ali whose telephone number is (571) 272-3769. The examiner can normally be reached on Mon-Fri 8-5:30, 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai T An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Syed Ali

January 25, 2005

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100